

Amendments to the Claims:

This listing of claims replaces all prior versions, and listings, of claims in the application:

Listing of Claims

Claims 1-40 (Canceled)

41. (Previously Presented) A method comprising:
surrounding a rotor with a cage member surrounding the rotor;
surrounding the cage member with a housing member surrounding the cage member; and
forming at least one axially-extending groove in the housing member to form a
cantilevered portion extending between the groove and the corresponding surface of the cage
member.

42. (Previously Presented) The method of claim 41 further comprising at least one tilt
pad disposed in a recess in the cage member and adapted to engage the rotor.

43. (Previously Presented) The method of claim 41 further comprising forming a
clearance between at least a portion of the radial outer surface of the cage member and the
corresponding portion of the inner surface of the housing member; and providing a passage
extending through the housing member and registering with the clearance for passing oil to the
clearance.

44. (Currently Amended) The assembly method of claim 43 further comprising:
forming a recess in the radial inner surface of the cage member;

providing a passage extending through the cage member and from the clearance to the recess for receiving the oil from the clearance and passing it to the recess; and

disposing at least one tilt pad in the recess for receiving the oil and adapted to engage the rotor.

45. (Canceled)

46. (Canceled)

47. (Canceled)

48. (Previously Presented) A method comprising:

surrounding a rotor with a cage member;

surrounding the cage member with a housing member;

forming at least one axially-extending groove in the cage member to form a cantilevered portion extending between the groove and the corresponding surface of the housing member; and

forming at least one axially-extending groove in the housing member to form a cantilevered portion extending between the groove and the corresponding surface of the cage member.

49. (Previously Presented) The method of claim 48 wherein the cantilevered portion of the cage member extends between the groove of the cage member and the corresponding cantilevered portion of the housing member; and wherein the cantilevered portion of the housing member extends between the groove of the housing member and the corresponding cantilevered portion of the cage member.

50. (Previously Presented) The method of claim 48 further comprising disposing at least one tilt pad in a recess in the cage member and adapted to engage the rotor.

51. (Previously Presented) The method of claim 48 further comprising forming a clearance between at least a portion of the radial outer surface of the cage member and the corresponding portion of the inner surface of the housing member; and providing a passage extending through the housing member and registering with the clearance for passing oil to the clearance.

52. (Currently Amended) The ~~assembly~~ method of claim 51 further comprising:
forming a recess in the radial inner surface of the cage member;
providing a passage extending through the cage member and from the clearance to the recess for receiving the oil from the clearance and passing it to the recess; and
disposing at least one tilt pad disposed in the recess for receiving the oil and adapted to engage the rotor.

53. (Canceled)

54. (Canceled)

55. (Canceled)

56. (New) The method of claim 43 wherein a first portion of the radial outer surface of the cage member extends in a slightly spaced relation to the corresponding portion of the inner

surface of the housing member to form the clearance, and a second portion of the radial outer surface of the cage member projects from the first portion in a radial direction and engages the corresponding portion of the inner surface of the housing member to prevent oil leakage from the clearance.

57. (New) The method of claim 41 wherein the cage member and the housing member are annular.

58. (New) The method of claim 41 wherein the cantilevered portion forms a mechanical spring.

59. (New) The method of claim 51 wherein a first portion of the radial outer surface of the cage member extends in a slightly spaced relation to the corresponding portion of the inner surface of the housing member to form the clearance, and a second portion of the radial outer surface of the cage member projects from the first portion in a radial direction and engages the corresponding portion of the inner surface of the housing member to prevent oil leakage from the clearance.

60. (New) The method of claim 48 wherein the cage member and the housing member are annular.

61. (New) The method of claim 48 wherein each of the cantilevered portions forms a mechanical spring.